

VARIOUS TYPES OF PRINTING PRESS

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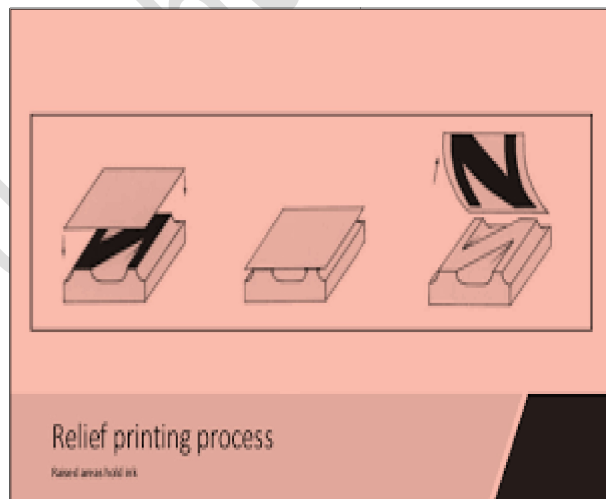
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Various types of printing press are

1. Relief printing
2. Plano graphic printing
3. Screen printing
4. Letter press printing
5. Gravure printing

1. Relief printing

- This printing process is developed by John Guttenberg In the 15TH Century.
- The Image area is to print is embossed and the non-image area is empty.
- The basic concept behind this process is that there is a physical disconnection between the image area and the non-image area.
- Firstly, they prepare a Relief printing process. The master is prepared with a mixture of metallic attributes or types of assembled together along with the sample is prepared by photo chemical methods, they known as block. Both are joined and locked together in a Frame. Ink Rollers on the master apply ink, image is receiving the ink and non-image area does not receive an ink.



Example of Relief printing process is:

Flexography: This type of printing is used in Corrugated boxes, folding cartons, banners, pamphlets, envelopes, flexible packing & gift wrapping paper etc.

2. Plano Graphic Printing

- It is established on the principle that water and oil do not combined and disguised each other.
- The image area is printed with Greece and oil material and the non-image area is printed by water.
- In this process, the chemical area of both the image is separated. But both are rest in the same position.

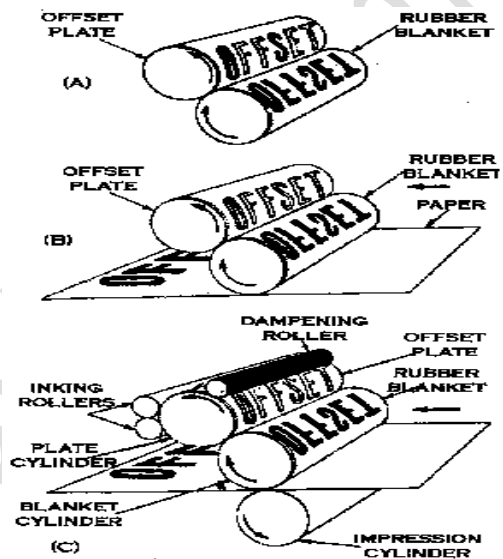


Figure 1 - 7. Offset printing. (A) The image is first transferred to a rubber blanket. (B) The Paper then receives the image from the blanket. (C) Major parts of an offset-lithographic press.

Example of Plano Graphic Printing is:

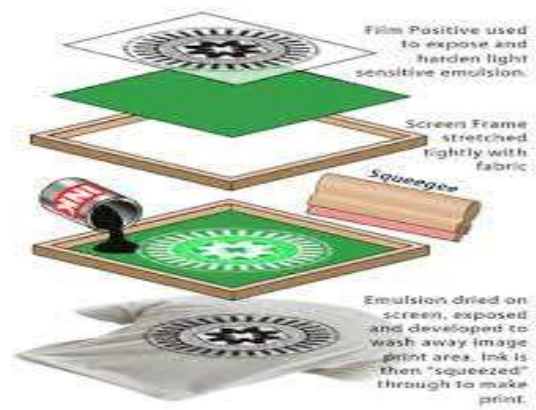
Offset Printing: In this type of printing process, the four color machine and single color machine is used.

Newspaper, Magazines and Books etc are the example of Offset Printing.

Lithography: This type of printing is used in micro fabrication technique used to make an integrated circuits and micro chemical systems.

3. Screen printing:-

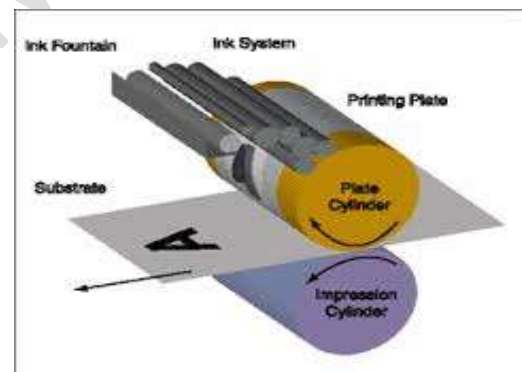
- This type of printing is used in a wide range.
- Screen printing is more usable than comparison to other printing processes.
- This is also known as porous printing.
- The process of screen printing is very simple and unique. It can be done by many things like stitching material, nylon, polyester rubber, plastic, paper & glass etc.



Examples: Wedding cards and visiting cards etc.

4. Letter press printing

Letterpress printing is a term for the relief printing of text and image using a press with a 'type high bed' printing press and movable type, in which a reversed, raised surface is inked and then pressed into a sheet of paper to obtain a positive right reading image.



- They are also known as Typography.
- Letterpress printing is also meant for printing borders, rules, illustration etc.
- The Letterpress printing machines can be classified in three groups.
- Rotary letterpress Printing, Platen-type letterpress printing and flat-bed Cylinder letterpress.

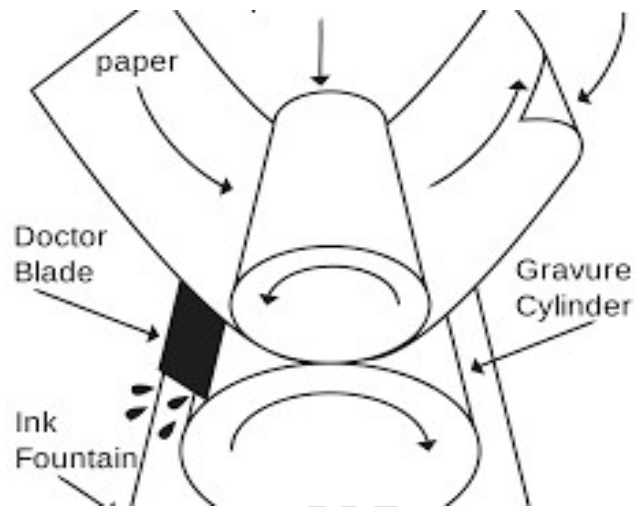
5. Gravure printing

It is a type of intaglio printing process, which involves engraving the image onto an image carrier.

In Direct gravure printing, the ink is applied directly to the cylinder it is transferred to the

substrate. One printing Unit consists of the following components:

- An ink fountain
- A doctor blade assembly
- An impression roller
- A dryer



Reference:-

- ✓ Mass communication & journalism UGC NETT/SET (JRF & LS)
- ✓ Editing: Concepts & Processes (Punjab Technical University)
- ✓ <http://en.m.wikipedia.org/wiki>